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YATES'

Farm Seeds

AND MANURES

FEBRUARY, 1920.

ARTHUR YATES & CO.
LIMITED,
Lower Albert Street - Auckland

TO INTENDING PURCHASERS OF **FEBRUARY, 1920.**

Grass & Clover Seeds, Manures, Grain, etc.

YATES' RELIABLE SEEDS

IN placing before you our Price List for Farm Seeds and Manures for this season, we do so knowing that, as in the past, we can supply Seeds that will give every satisfaction as regards germination and purity, and Manures of the highest analysis.

We wish to emphasise the fact that we do not pretend to compete in prices with so-called "Cheap Seeds and Manures," for the simple reason that **Seeds and Manures of quality that we supply are worth the price asked,** and we are convinced that our prices compare favourably when the quality is taken into consideration. We have, of course, different samples of some lines which permit of our offering them at varied prices, according to their respective grade. A visit to our Seed-cleaning Department will convince you of this, and we are always glad to show customers or intending buyers the machines in operation, if they will call at our Shop in Lower Albert Street.

OUR TERMS EMBRACE—

DELIVERY.—Customers will please note that all **Grass and Clover Seeds** are quoted free on board rail or steamer Auckland. **Railage or freight paid to the nearest direct station or port,** with the exception of orders below the value of £2, when carriage will be charged for. **Manures, Grain, etc.,** are quoted as usual f.o.r. or f.o.b. Auckland.

DISCOUNTS.—To secure uniformity in booking goods purchased, and also to enable cash buyers to obtain the advantage due to them, we allow discount on all goods, whether Grass, Clover or Grain Seeds, Meals, Manures, Implements, etc., etc., according to the following scale:—

3¾ per cent. (9d. in the £) for cash with order, or 2½ per cent. (6d. in the £) for cash in month, unless otherwise quoted. All goods sold are strictly nett and due three months after date of invoice. 8 per cent. interest will be charged on overdue accounts.

Prices.—All Goods are offered subject to being unsold and to the fluctuations of the market. Sacks and bags are charged for at cost price.

CONDITIONS OF SALE.—We believe that all Seeds, Bulbs, Tubers and Roots sold by us are of the description and kind specified by us at the time of the sale, but owing to the practical impossibility in many cases of being certain of this, we give no undertaking that such Seeds, Bulbs, Tubers or Roots will correspond with the description under which they are sold, and we make all sales subject to this condition. We further give no warranty, expressed or implied, as to their growth, description, quality or productiveness, and will not be in any way responsible for the crop. If the purchaser does not accept the goods sold to him on these terms, they are at once to be returned to us.

Special to Unknown Correspondents.—With orders from those with whom we have not had the pleasure of previous business transactions, we naturally expect to receive either Cash with the order or a satisfactory Auckland business reference. We dislike having to draw the attention of new Customers to this reasonable business method, and would respectfully ask your observance of it so as to avoid any delay in the execution of the order.

Execution of Orders.—All Orders, if not sent by return steamer or rail, are promptly acknowledged by us. Should particulars of consignment or acknowledgment of order not be received by return mail, please write repeating such order in case letter has miscarried or arrived without signature or address of sender. **All Orders, whether large or small, receive our most careful and prompt attention.**

Represented by—
A. YATES & CO., Ltd., Sydney, and
S. YATES, Shudehill, Manchester.

Arthur Yates & Co., Ltd.

"Re-machined Seeds"

of Tested Growth and Purity

The reason why we lay so much stress upon the "re-machining" our Yates' Reliable Seeds undergo before they are distributed to our numerous customers, is because we realise the importance of it in the production of clean pastures.

Our Seed-cleaning Department is always being added to, so as to enable us to produce samples of Seed of the highest possible quality as regards purity and germination. By means of the extensive cleaning plant we possess, all light and immature seeds are removed, as well as impurities in the way of weed seeds, dust, gravel, etc., thus improving the germination percentage to a degree not always realised by those who are inclined to purchase low-priced seeds that have not been re-cleaned in such a thorough manner.

The price of such "re-cleaned" seeds is naturally a little in advance of lines that have not been so treated, and we regret to find an inclination on the part of many farmers to buy the "lower-priced" seeds without taking the above into consideration; and once again we urge, "Why risk the ultimate success of your pasture for the sake of a few pence, or, at the most, a shilling or two per acre?"

Our Aim is to supply **Seeds** of **Good Value** at a **reasonable price,** thus ensuring to purchasers—

Seeds free from adulteration.
Seeds clean as possible from noxious weeds.
Seeds clean from light and immature seeds.
Seeds of reliable and tested growth.

YATES' SEEDS

ARE

Re-machined

AND ARE OF

Tested Growth

CAUTION.

Customers are requested to note that any seeds sent out by us will be branded with our name, or contain our printed ticket, without which inquiries should be made from us as to their being genuine Yates' Reliable Seed.

A Glimpse of Our Seed-Cleaning Department

(See also Page 12)

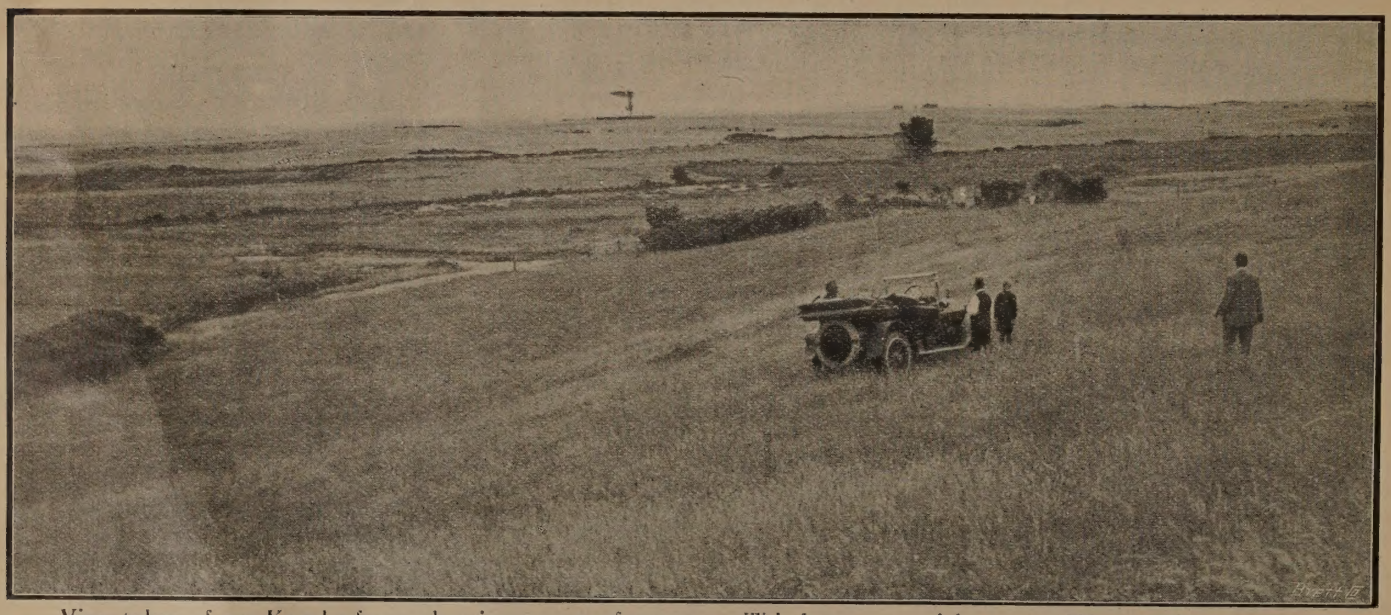
Our Price List will be found at the end of this Catalogue.

Yates' Seed Farms

IN last year's Farm Catalogue we drew attention to the fact that we were disposing of part of our Waiau-Karaka Seed Farms, and we still have a portion of this area for disposal, and shall be pleased to answer any enquiry from those of our farmer customers who are desirous of obtaining farms of 60 to 200 acres fairly near to Auckland, the farms being situated about eight miles from Papakura Station, and connected with Papakura by a good road, two-thirds of which is already metalled and the remainder, it is anticipated, will be metalled during this year.

We ourselves are still retaining about 1,500 acres, a proportion of which we devote to growing crops for seed-saving purposes, especially for selecting and saving stock seed Peas to distribute to growers in the South who grow on contract for us for the main supply, as well as growing various Carrot, Parsnip, Beet, Sweet Peas, etc.

Illustrations contained in this Catalogue will show the class of country that we are disposing of at low prices, from £18 upwards according to improvements; values are certain to rise in the near future after the completion of the metalling of the roads. Our reason for selling part is on account of having more than we require for our seed-growing purposes, and we require the additional capital in our rapidly expanding seed business.



View taken of our Karaka farm, showing nature of country. This farm, comprising over 1000 acres, has nearly all been ploughed and grassed by ourselves, since we took possession some eight years ago.

View of harvesting Seed of Lotus Angustissimus at our Karaka farm—(See Page 8).

Yates' Re-machined Grass and Clover Seeds

The Season's Prospects

Prices on the whole will be found slightly above last year's values. This is due to the world shortage in many lines, aggravated by the recent drought in Australia, and also by the late frosts in the South partially destroying the ripening seed, especially of the Ryegrass and Cocksfoot crops. We do not therefore anticipate any fall in prices, but rather further advances as stocks become exhausted. Farmers will be well advised to order early, and thus guard against any additional increase.

Our Price List will be found at the end of this Catalogue, and we shall always be pleased to give special quotations to buyers of large quantities if they will advise us as to the approximate quantities or area to be sown.

Cocksfoot (Dactylis Glomerata)

Found in all situations, on all varieties of soils, it is perhaps the best known of all grasses, being easily distinguished from others by its peculiar flattened stem. **It should be included in all mixtures for permanent pasture.** Owing to adverse conditions the 1920 crop will not be a heavy one, and the price is consequently high. We strongly recommend the use of the best Heavy Extra Machined as the cheapest, even if a less quantity is used.

Yates' Extra Machined.—The quality we recommend. As free as possible from light, immature seeds, double heads and fog.

Rough-dressed.—Usually contains a fair proportion of light, immature seeds, double heads, fog and short straw. Not recommended.

Perennial Rye Grasses (Lolium Perenne)

For good soils Perennial Ryegrass is almost indispensable, and under favourable conditions affords permanent pasture of the highest feeding value. On poorer soils it dies out sooner or later, but it is usually advisable to include it in all mixtures, as it is beneficial in checking the growth of weeds and thus allowing slower grasses to develop. We have secured fine samples of all grades, and especially recommend our Yates' Extra Heavy Re-machined Perennial as the best value.

Yates' Heavy Machine-dressed Poverty Bay and Hawke's Bay Perennial.—The best procurable from these districts.

Yates' Extra Machined Canterbury.—A splendid sample of high quality seed.

Yates' Extra Heavy Re-machined Perennial—The very best value in Perennial Ryegrass, saved from off old pastures and of strong growth. Heavy, shotty, clean seed.

Finest Southern Machined.—A lighter weight seed.

Further view of our Karaka farm.

Special Quotations given to Buyers of Large Quantities. Write at once.

Yates' Re-machined Grasses
of Tested Growth

PRAIRIE GRASS.

Italian or Annual Ryegrass (Lolium Italicum)

The seed we offer has been re-cleaned, light and immature seeds and impurities being removed, and the resulting sample will give every satisfaction. Should be in all mixtures, if only to afford protection to the slower-growing grasses, and to give an early bite long before others are ready on a new pasture. It is, moreover, unsurpassed for providing feed for one or two years' lay, especially if sown in conjunction with Crimson Clover and Yellow Trefoil.

Italian, Yates' Giant Re-cleaned.—A magnificent sample, which will give the very best results. Of special value and our recommendation.

Italian Ryegrass, Yates' Re-cleaned.—Free as possible from all impurities, light seed and husk. A splendid sample.

Western Wolths (Lolium Western Woldicum)

This, like Italian Ryegrass, is invaluable for providing feed for one or two years' lay. Being a selection of Italian Ryegrass, it has proved to be a most robust form of this well-known grass, its rapid and powerful growth furnishing early and nutritive feed which is appreciated by all stock. We have exercised every care to procure a true stock, as the seed cannot be distinguished from the ordinary Italian, and customers can depend upon receiving genuine Western Wolths from us.

Prairie Grass (Bromus Unioloides)

This is one of our most nutritious grasses, and well adapted for the climate of Auckland Province and the North Island generally. It is a perennial, but must not be allowed to seed the first season, or it will lose its character; and stock being very fond of it, care must be taken that they do not eat it down too closely, or the crown will be eaten off. On this account it should be sown in different paddocks, and the cattle changed from one to another; in fact, this is the correct way of treating all pastures, which always suffer more or less from continuous grazing. It grows luxuriantly on heavy soils, and stands the drought and heat well, and is a splendid grass to mow.

YATES' RELIABLE SEEDS. Part of area stock Garden Peas at our Waiau Seed Farm. We in the South, to grow on contract for us. By this means we

Yates' Re-cleaned Clovers
Of Tested Growth.

We again emphasise the importance of buying the best samples, free from adulterations, to which unfortunately Clovers are subject by unscrupulous dealers. We use the utmost care in purchasing our stocks, and ensure "reliable" seed being sent out by us by passing the seed through special machinery we have installed.

COWGRASS or PERENNIAL RED CLOVER.—A liberal supply of this clover should be included in all mixtures, and for all varieties of soils and situations, especially where stock are to be fattened. The roots penetrate well into the soil, keeping the plant in vigorous growth during the hot, dry weather.

Yates' Finest Colonial Cowgrass.—Bright, bold seed, of strong germination.

Yates' Finest Imported Cowgrass.—A splendid sample of Yates' Re-cleaned; exceptional quality.

RED CLOVER.—One of the finest of our fodder plants. It is also most useful for sowing for ploughing in for green manure.

Yates' Finest Colonial Red.—Well-ripened; a strong-growing, bold seed.

Yates' Finest Imported Red.—A bright, well-harvested seed of strong germination.

ALSYKE CLOVER is a true perennial, succeeding better than most clovers on damp and undrained land. This clover should be included in meadow mixtures, and for sowing on heavy soils. In character it is between Cowgrass and White Clover; it is a good clover for mowing for hay, and is recommended for land that is clover-sick.

Yates' Finest Alsyke.—A most excellent, well-saved sample, of strong growth.

WHITE CLOVER (Trifolium Repens).—The habit of the plant is creeping, and when once established it soon covers the ground; besides the mass of surface roots there is a long tap-root, which enables the plant to resist drought. It should be included in all mixtures for permanent pasture; but, owing to its dwarfer habit, is not so suitable for hay as Cowgrass and Alsyke. It is more suitable for poorer soils than other clovers, with the exception of the Lotus family.

Yates' Finest White.—The very best quality; bright, clean seed.

CRIMSON CLOVER (Trifolium Incarnatum).—An annual; very useful as a stubble plant, sown either alone or with Ryegrass, especially Italian Rye, after a grain crop is removed, when it will produce an enormous crop very early in the following spring. Suitable either for consumption as green food or for hay, and much relished by all stock. We think farmers should grow this crop more extensively. Like Red Clover, we also strongly recommend it for ploughing in as green manure. This is one of the best ways of enriching the soil, especially where freight on bonedust, etc., is excessive.

TREFOIL or YELLOW CLOVER (Medicago Lupulina).—An annual clover, natural to light, dry soils, and greedily eaten by sheep.

save our own stock seed which is distributed to various growers maintain a high standard with our strains of Garden Peas.

YATES' RELIABLE SEEDS.

YATES' RELIABLE SEEDS

Re-cleaned Clovers of Tested Growth

YATES' RELIABLE SEEDS

LOTUS ANGUSTISSIMUS.—Practical farmers have found that if Lotus Angustissimus is sown amongst standing Ti-tree in the Autumn and top-dressed with Basic Super and not fed off, it will produce sufficient dry undergrowth to burn the Ti-tree in the summer, after which the Lotus Angustissimus, no longer being shaded with the Ti-tree, would make a fresh and vigorous growth, and if Danthonia had been sown with it in the first instance, the result would be a good pasture in the following spring. Danthonia sown alone will get rid of Ti-tree equally well, but not in the first year.

Another practical recommendation is to Disc-harrow short standing Ti-tree twice, two ways, and sow with Lotus Angustissimus, Danthonia, etc., the reason for discing in preference to ploughing being that it leaves the top soil on the surface in place of mixing it with sour sub-soil.

The effect of a strong growth of Lotus Angustissimus on such land is to open up the soil with its deep roots, supplying Nitrogen (Ammonia) by means of the nodules on the roots, but perhaps most important of all, it supplies "humus," which is usually lacking in such soils. It may be taken for granted that if the so-called "poor" Ti-tree land we refer to is covered with a strong growth of Lotus Angustissimus and Danthonia for several years and is not overstocked, it will then be in a condition to grow other suitable Clovers and Grasses.

It is as a pioneer Clover that we recommend Lotus Angustissimus, but by that we do not wish to infer that it is not a good variety; land in the North previously in rough grass that would only carry a sheep to three or four acres, when sown in Lotus Angustissimus and manured with a top-dressing manure, carried a cow to the acre all through the spring and early summer until the feed died down in the autumn. As much as three tons of hay per acre can be made from it, and, being very nutritious hay, is much relished by stock.

We strongly recommend it for the purposes we have described above, where Cowgrass, Red, White, and Alsyke Clovers are at first unsuited. The seed we offer is local-saved, of strong germination, and carefully cleaned.

LOTUS MAJOR (Greater Birdsfoot Trefoil).—What Lotus Angustissimus is to dry, hilly ti-tree land, Lotus Major is to land that is only partially drained and therefore inclined to be wet and sour. On such land it grows with remarkable vigour, providing an immense amount of feed that is of better quality than the Lotus Angustissimus and more liked by stock. Together with "Yorkshire Fog" it is one of the best "swamp pioneers" for preparing the way for the introduction of other grasses and clovers, as the cattle in feeding off the herbage tread the spongy swamp land so as to form a firmer base for the after sowing of Meadow Foxtail, Timothy, Ryegrass, etc. Imported seed being in short supply this year we also offer Colonial saved seed that usually contains a small percentage of Lotus Angustissimus, as these two Lotus are generally found growing together. We can assure our customers of a practically pure sample of local seed, having exercised great care in the selection.

LOTUS CORNICULATUS.—This perennial is not nearly so robust in its growth as the two other Lotus, but its herbage is not so "woolly" and is even more succulent than Lotus Major. It does not seem to suit the Auckland Province, and is not grown to the same extent. It should be eaten close, as also should the other varieties of Lotus.

SUBTERRANEUM CLOVER.—An annual clover which, by its distinct habit of forcing the lower seed pods into the ground, reproduces itself readily, and practically becomes perennial. Will be found most suitable for dry soils, throwing a large amount of nutritious feed, and standing well for grazing purposes. Has a creeping habit similar to white clover and spreads rapidly, but is easily eradicated by ploughing, when it makes a splendid green manure by adding humus and nitrogen to the land.

TOP DRESSING CLOVER LAND.

Clover land requires top-dressing with Phosphatic Manures, and for this purpose we recommend

Ephos Basic Phosphate

Ephos contains 60 to 63% Phosphates, and at the price quoted is by far the best value in purely Phosphatic fertilizers.

Especially do we advise the application of Ephos to Lotus Angustissimus, as it results in vigorous young growth in the early spring that is most palatable and fattening to stock.

Price, ex ship due early in March—

£10 per ton.

Delivered free on rails or steamer Auckland, less 5/- per ton discount for prompt cash on delivery.

Basic Slag 17%.

We have a limited quantity of this arriving March-April.

Price, ex ship, delivered free on rails or steamer Auckland—

£14 per ton.

Less 7/- per ton discount for prompt cash on delivery.

Both these Manures are offered subject to sales, market fluctuations, and safe arrival.

Otaua, Waiuku.
I must compliment you on the quality of your seeds. Yours faithfully,
E. A. O'Reilly.

Te Kuiti, 14/11/19.
The Lucerne (Yates' Hunter River) seed has turned out of high germinating quality; apparently every seed germinated, and the rows set 10in. apart are growing well. This is most satisfactory, and I thank you for forwarding seed of such high quality. *Charles Hiorns.*

Our A.Y. Top-Dressing Manure will give you satisfaction.

YATES' RELIABLE SEEDS

Re-cleaned Clovers of Tested Growth

YATES' RELIABLE SEEDS

LUCERNE — Yates' Broad-leaved Hunter River (Re-machined). — We have the distinction of being, through our Sydney House, the largest dealers of Lucerne in Australasia, and are therefore in a position to offer the genuine Hunter River variety, free from dodder, re-machined by ourselves, and as this variety has headed the list both at the Ruakura trials in N.Z. and the Wagga Wagga trials in N.S.W., we strongly recommend intending Lucerne growers to obtain their seed from us. Lucerne requires a well-worked soil of good depth, free as possible from weed—given these essentials, there should be no question as to the success regarding this most valuable fodder crop. Sow 14lb. to the acre, drilling in rows 12 inches apart. Keep ground between the rows well worked, so as to prevent weed growth from smothering the young plants, as Lucerne is slow in establishing itself, and the Hunter River variety does not mature so quickly as some of the imported varieties. Plants from seed sown towards the end of October should be ready for the first cutting in January, but it is better to allow this to act as a mulch; two or three other cuttings can then be made at intervals of about a month. The first year, of course, the crops obtained will be light, but every year will see a correspondingly heavier return, and as Lucerne is the most highly concentrated fodder plant known, its value cannot be overestimated. Without a doubt the best permanent fodder crop—one that quickly pays for the labour of establishing it. We have issued a little booklet on Lucerne cultivation, and shall be pleased to forward a copy to anyone who is intending to grow the crop.

Strawberry Clover.—A valuable variety for damp lands, producing immense quantities of fattening herbage. It is quite distinct in appearance from all other varieties, being of a trailing habit, and does well on the poorer heavy soils.

Melilotus Officinalis (King Island Clover). — A clover which seems to be well adapted to grow on apparently barren sand, and may be used with advantage on the large stretches of coastal sand, but as it is said to flavour milk it should not be used on dairy pastures.

Melilotus Alba (Bokhara Clover). — A perennial clover, which grows exceedingly well on dry, sandy soils. Requires to be well stocked, otherwise it becomes bitter and unpalatable to cattle. Recommended only for sandy districts or soils where other clovers will not succeed.

Lupins, Annual.—Provides a splendid crop for ploughing under as "green manure." It grows rapidly, and being a Legume, adds to the nitrogen in the soil.

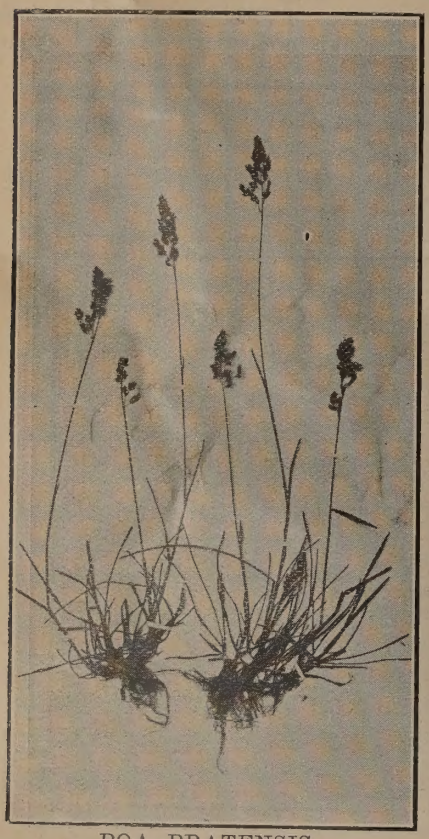
Lupins, Perennial.—One of the best sand binders and useful in reclaiming sandy tracts near the coast, sowing at the rate of 2lbs. to the acre. We offer colonial-grown seed at a particularly reasonable price.

Harvesting Yates' Broad-Leaved Hunter River Lucerne.

Special Quotations given to Buyers of Large Quantities. Write at once.

Yates' Re-cleaned Grass Seeds—of Tested Growth

MEADOW FESCUE.
Notice the isolated head of Tall Fescue.



POA PRATENSIS.

RAPE (Broad-leaved Essex).—Sow broadcast, about 2lb. per acre, or 1 to 1½ lbs. drilled, or with grass seeds at the rate of ¼lb. to the acre; produces a large yield of valuable keep for sheep and for topping-off lambs.

MUSTARD (Best Agricultural).—Sow 10lbs. to 14lbs. of seed per acre, to be eaten off by sheep, or ploughed under for manure; or can be sown with grass seeds same as Rape.

MEADOW FOXTAIL (Alopecurus Pratensis).—One of the earliest and best of our Meadow Grasses. It succeeds on most soils if not too dry, going naturally with Timothy, suiting the same class of land, but it is much earlier than Timothy. Seed in short supply this year.

TIMOTHY (Phleum Pratensis).—One of our best grasses for heavy, moist soils, producing an abundant and valuable herbage of highly nutritious properties. It is liked by stock more than most grasses, but is not suitable for dry soils. Well-cleaned seed.

CRESTED DOGSTAIL (Cynosurus Cristatus).—Valuable for dry pastures. Its fibrous roots penetrate to a considerable depth, which enable it to withstand a continuance of hot, dry weather; and its compact, short foliage is much relished by sheep. It is an excellent filling-in grass to grow between others, and has come very much into favour during the last few years. We strongly recommend it for sheep pastures.

CHEWING'S FESCUE.—Quite a distinct variety, rooting very deeply, and after it is well established gives a large amount of feed. Invaluable for light pumice and sandy soils, and also on comparatively heavy land it has done remarkably well. We consider it should be included in most mixtures for sheep pastures, and should form one of the chief ingredients for pumice soils.

MEADOW FESCUE (Festuca Pratensis).—A most excellent grass, probably one of the best in existence, and should be included in all mixtures, except for very dry soils. It is much relished by all stock, and makes excellent hay. It is a perennial, early and nutritious. Meadow Fescue should not be confused with Tall Fescue and passed by on that account, as it is quite a distinct grass, as will be noticed from the heavier seed head of Tall Fescue shown in accompanying illustration.

TALL FESCUE (Festuca Elatior).—Should on no account be sown on or near swamps, as it takes entire possession, and, being very subject to ergot in moist situations, ruins the swamps, as the ergot causes the hoofs of stock to rot off, and cows to lose their calves. On poor, hilly land it has proved invaluable, giving good feed and withstanding the drought and the crickets, and we recommend it only for such situations.

HARD FESCUE (Festuca Duriuscula).—Very hardy sheep grass, springing early and producing fine, succulent herbage. Its long roots enable it to withstand continuous dry weather.

RED FESCUE (Festuca Rubra).—Not unlike Hard Fescue, and often mistaken for it; but besides its more robust habit it has deeper roots, which naturally fit it for pumice or poor clay soils.

SHEEP'S FESCUE (Festuca Ovina).—This is often considered to be only a variety of Hard Fescue.

POA PRATENSIS or KENTUCKY BLUE GRASS.—Smooth-stalked Meadow Grass or Blue Grass. One of the best permanent grasses, invaluable for dry situations, yielding a large quantity of herbage very early in the season. As its creeping roots take possession of some rich, light soils and are difficult to eradicate, it should be used with caution on such soils, and only sown in permanent pastures.

POA TRIVIALIS.—Rough-stalked Meadow Grass. An excellent grass for damp pastures and irrigated meadows, also for land partially shaded by trees. Its shoots trail upon the ground, forming a beautiful verdant sward early in the spring, which is much relished by cattle.

Yates' Re-cleaned Grass Seeds—of Tested Growth

PASPALUM DILATATUM (finest hand-shaken seed).—This grass continues to be one of the best "fodder" grasses for summer feed, especially in our warmer Northern Districts, and it is for such districts that we specially recommend it to our customers. When once established it is difficult to eradicate, and therefore is not suitable for temporary pasture, although permanent mixtures in North Auckland districts could include from 1½lb. to 2lb. per acre. We have come to the opinion that the best way is to grow a "Paspalum Paddock." By so doing, you can keep it to itself, feeding off as required, and at the same time keeping your other pasture from being crowded out by the Paspalum. Seed will not germinate satisfactorily if sown in cold, wet weather; it consequently requires to be sown either in November or during February or March. Grows rapidly, "stooling" out into large clumps, which remain green during the hottest months of the summer; will withstand floods and fairly heavy frosts. All kinds of stock eat it greedily, and it stands grazing well; gives good feed even on poor, hilly land, but does best on good loams. Our Sydney House buys direct from the growers the best samples of hand-shaken seed, which are heavier and more mature, and give a far better percentage of growth, than the New Zealand saved seed.

BROWN TOP (Agrostis Canina).—An acclimatised Red Top with a strong, upright growth that provides herbage right through the driest season. Is very hardy and peculiarly adapted for the poor clay lands, and is greatly appreciated by settlers in the North of Auckland who know it. We do not recommend it for sowing on land that will grow Cocksfoot, etc.

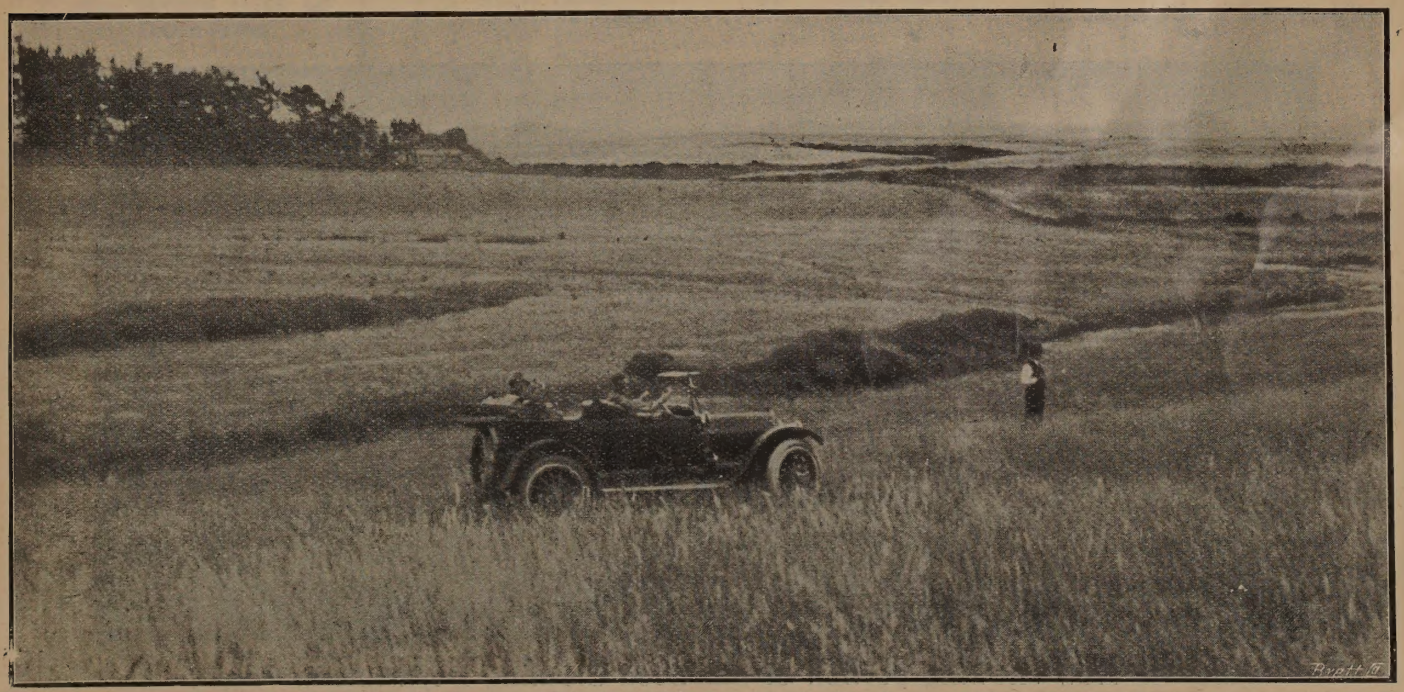
IMPORTED RED TOP (Agrostis Vulgaris).—This is a grass that has proved extremely useful for sowing on poor, hilly pastures and dry, sandy and gravelly land. It should be used only on such land.

FIORIN (Agrostis Stolonifera).—A grass affording abundance of keep after other sorts are spent. It succeeds best on moist soils, thriving well on peat, and should be included only in such mixtures. It is of second-rate quality only as regards feeding value.

DANTHONIA.—More than maintains its position as one of the best "early" grasses, besides being, in conjunction with Lotus Angustissimus, invaluable for breaking-in ti-tree and fern country (see page 8). Owing to restricted labour, the amount of seed saved is comparatively small, so that the supply, especially of D. Pilosa, is very limited and high in price. We can supply D. Semi-annularis at a slightly lower price, as the bulk of the seed saved this year is of this variety.

AGROSTIS VULGARIS (Red Top)

Waipapa P.O., 27/3/19.
All the seed I have got from you is doing splendid. I have always found your seed the best on the market. *Charles R. Preston.*



View showing a portion of our Karaka farm. This has all been ploughed and grassed by ourselves from unimproved land.

Our A.Y. Manures are unsurpassed for Quality, and therefore, Results.

Yates' Re-cleaned Grass Seeds—of Tested Growth

GOLDEN OAT GRASS (Avena Flavescens).—Useful for upland sheep walks, and for dry, sandy soils.

TALL OAT GRASS (Avena Elatior).—A tall-growing variety of the above, and so far as reports go is the better variety for local conditions.

YORKSHIRE FOG (Holcus Lanatus).—A soft grass that is of great value as a pioneer grass in breaking in peat swamps. Sown with Lotus Major it does remarkably well, and cattle feeding upon it tread the spongy ground into a firmer seed-bed for the later introduction of better grasses. It will also thrive on land too wet or sour for better grasses.

RATSTAIL (Sporobolus Elongatus).—Valuable for hilly, broken, poor land. The young growth is tender and nutritious. When it gets old it is tough and severe on animals' teeth, although there is some doubt as to whether its wearing action on the teeth of stock is not confined to loose, sandy soils, where the sand, blowing on to the somewhat glutinous stems, sticks on them, and that it is the sand that grinds the teeth, not the grass. We have been told frequently that on heavy land it does not affect the teeth. It should, in any case, be kept eaten close. It stands drought well, and should be sown in summer or very early autumn.

INDIAN DOOBJ or BERMUDA GRASS (Cynodon Dactylon).—A creeping grass which, when once established, is difficult to eradicate. It stands drought well, but as there is very little winter growth, we think it is not the most suitable for this climate; it is largely grown in parts of Australia, and does well in the South Sea Islands. Cannot be raised from seed in colder months.

POA AQUATICA.—Adapted for low-lying, moist or swampy lands, in which it grows luxuriantly and provides good feed for cattle. We anticipate having seed this autumn.

GLYCERIA FLUITANS.—A useful grass for low-lying, moist or swampy lands, but we are doubtful if seed will be available this season.

YARROW or MILFOIL.—Will succeed on the poorest and driest soils, resisting the longest droughts. A little is relished by sheep (preventing scouring), and a small quantity (½oz. per acre) is useful in permanent pasture mixtures as a medicinal plant.

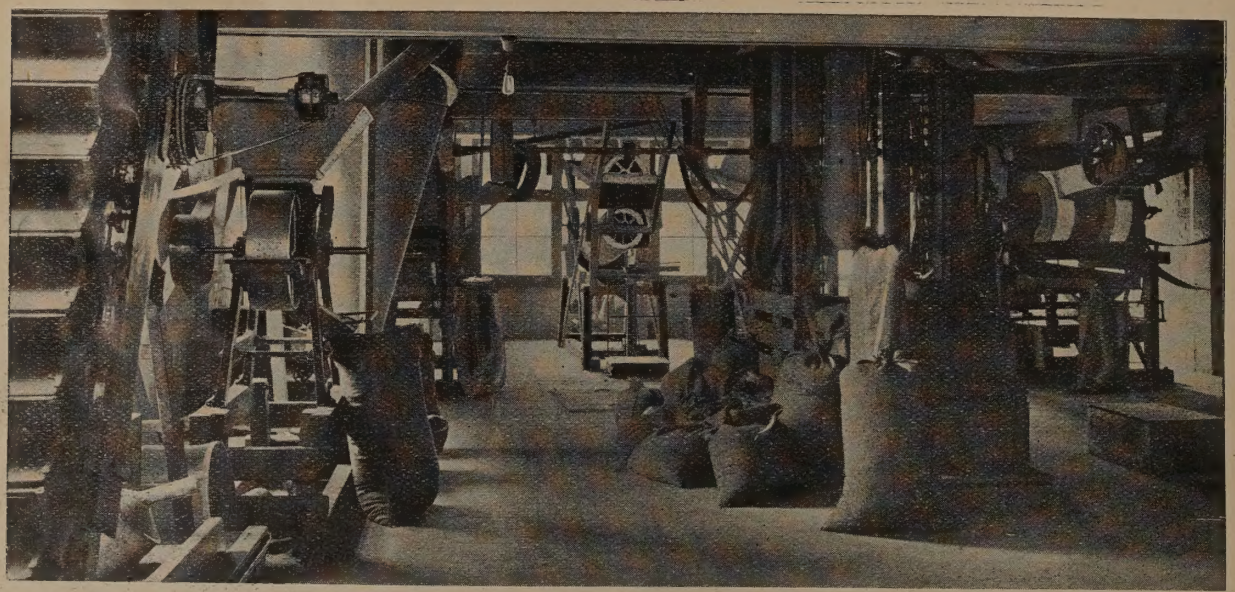
SHEEP'S PARSLEY.—A small quantity of this valuable plant should be included in all mixtures for sheep. It is an excellent plant for keeping sheep in good health, and is said to prevent liver rot. It is eaten with avidity, and stands close feeding.

SHEEP'S BURNET.—Makes an excellent pasture for sheep. Grows on poorest sandy or calcareous soils, and resists extremes of cold and heat. Sow alone broadcast, at the rate of 30lbs. to the acre, or as a substitute for Clover, 3lbs. to the acre.

SAINFOIN.—A valuable, deep-rooting forage plant for growing on dry, light, or shallow soils, especially those on calcareous formations.

TURNIPS.—Often sown with grass seeds, at the rate of about ¼lb. to the acre. Aberdeens or the quicker-growing soft white turnips are used.

COUCH or TWITCH GRASS.—As this name is applied to several grasses, great confusion has arisen, **and it should never be used.** Sometimes Indian Doobj and other grasses with creeping roots are meant.



View showing portion of our Seed-Cleaning Department.

Remember! We have the most complete Seed-cleaning Plant in Auckland.

Yates' Mixtures of Grasses

WE are always willing to place our wide and varied experience at the service of our customers, and to recommend **Mixtures of Grasses and Clovers** if they will give us particulars of (1) Area to be dealt with; (2) description of surface and subsoil; (3) nature of surroundings, whether the land is sheltered or bleak; (4) how drained, if the land is wet or dry; (5) previous crops during last decade and present state; (6) purposes for which the crop is required, *i.e.*, cattle or sheep grazing.

For general purposes we recommend the following from our personal experience and from satisfactory results obtained from similar mixtures supplied by us. They are given more as hints than as definite directions, as, irrespective of soils, requirements vary with locality and with the kind of stock that is intended to be grazed.

From 35lbs. to 40lbs. of seed per acre should be sown on ploughed land, and 20lbs. to 25lbs. on bush burns.

"A" MIXTURE

For Bush Burns, on good loamy soil, limestone formation.

7 lbs.	Ryegrass, Yates' Perennial
5 ,,	Cocksfoot, ex. mach.
1 ,,	Timothy
1 ,,	Meadow Fescue
2 ,,	Chewing's Fescue
1 ,,	Crested Dogstail
1 ,,	Danthonia
½ ,,	Meadow Foxtail
½ ,,	Poa Pratensis
2 ,,	Cowgrass
2 ,,	White Clover
1 ,,	Alsyke Clover
¼ ,,	English Rape
¼ ,,	Turnip
½ oz.	Yarrow

"B" MIXTURE

For Bush Burns, poor clay soil and second-class heavy land.

5 lbs.	Ryegrass, Yates' Perennial
8 ,,	Cocksfoot, ex. mach.
2 ,,	Chewing's Fescue
1½ ,,	Danthonia
½ ,,	Paspalum Dilatatum
1 ,,	Redtop
½ ,,	Dogstail
1 ,,	Lotus Angustissimus
½ ,,	Lotus Major
2 ,,	Red Clover
1 ,,	White Clover
1 ,,	Alsyke Clover
1 ,,	Trefoil Clover
½ oz.	Yarrow

"C" MIXTURE

For Ploughed Land, good loamy soil, permanent pasture.

12 lbs.	Ryegrass, Yates' Perennial
4 ,,	Ryegrass, Italian, Re-cleaned
8 ,,	Cocksfoot, ex. mach.
3 ,,	Timothy
1 ,,	Crested Dogstail
½ ,,	Meadow Foxtail
1 ,,	Meadow Fescue
1 ,,	Chewing's Fescue
½ ,,	Poa Pratensis
4 ,,	Cowgrass
1 ,,	White Clover
1 ,,	Alsyke Clover
¼ ,,	English Rape
½ oz.	Yarrow

"D" MIXTURE

For Ploughed Land, good loamy soil, temporary pasture.

10 lbs.	Italian Ryegrass or Western Wolths
15 ,,	Perennial Ryegrass
4 ,,	Timothy
3 ,,	Prairie
2 ,,	Meadow Fescue
5 ,,	Cowgrass
2 ,,	Trefoil Clover
2 ,,	Crimson Clover

"E" MIXTURE

On Stubble for one year's lay for hay or green fodder.

6 lbs.	Crimson Clover
30 ,,	Italian Ryegrass or Western Wolths
4 ,,	Trefoil Clover

"F" MIXTURE

For Ploughed Land, poor soil, permanent pasture.

10 lbs.	Ryegrass, Yates' Perennial
2 ,,	Italian Ryegrass
8 ,,	Cocksfoot, ex. mach.
1 ,,	Danthonia
½ ,,	Brown Top
1 ,,	Poa Pratensis
3 ,,	Chewing's Fescue
1 ,,	Paspalum Dilatatum
1 ,,	Ribgrass
1 ,,	White Clover
4 ,,	Cowgrass
1 ,,	Alsyke Clover
1 ,,	Lotus Angustissimus
1 ,,	Trefoil Clover
½ ,,	Lotus Major
½ oz.	Yarrow

"G" MIXTURE

For good dry alluvial Swamp Land.

10 lbs.	Ryegrass, Yates' Perennial
3 ,,	Ryegrass, Italian, Re-cleaned
5 ,,	Cocksfoot, ex. mach.
3 ,,	Timothy
1 ,,	Meadow Foxtail
2 ,,	Meadow Fescue
1 ,,	Crested Dogstail
½ ,,	Poa Trivialis
2 ,,	Prairie
2 ,,	White Clover
1½ ,,	Alsyke Clover
3 ,,	Cowgrass
¼ ,,	Rape
¼ ,,	Devonshire Greystone Turnip

"H" MIXTURE

For poor drained Swamp Land.

8 lbs.	Ryegrass, Perennial
2 ,,	Ryegrass, Italian, Re-cleaned
5 ,,	Cocksfoot, ex. mach.
3 ,,	Timothy
¼ ,,	Meadow Foxtail
1 ,,	Fiorin
1½ ,,	White Clover
1½ ,,	Alsyke Clover
2 ,,	Cowgrass
1 ,,	Lotus Major
½ ,,	Lotus Angustissimus
¼ ,,	Rape
¼ ,,	Devonshire Greystone Turnip

WARNING !

Customers are requested to note that any seeds sent out by us will be branded with our name, or contain our printed ticket, without which enquiries should be made from us as to their being GENUINE YATES' RELIABLE SEEDS.

YATES' RE-MACHINED ALGERIAN SEED OATS—(See Page 17).

BEFORE CLEANING CLEANINGS AFTER CLEANING

We are always ready to identify specimens of Grasses, etc., but customers are requested to send complete specimens, i.e., roots, foliage and seed heads.

A.Y. SPECIAL MANURES A.Y.

Manures and Fertilizers

Yates' A.Y. Manures

A.Y. SPECIAL MANURES A.Y.

Sold under a Guaranteed Analysis as supplied to the Minister of Agriculture. "The Fertilizers Act, 1904." The Actual Analysis, however, being considerably higher in every case.

Most Manures are in short supply this year, owing to restricted shipments of essential fertilizers, such as Bonedust, Superphosphate and Ammoniacal Manures. The resulting high freights and other charges have increased the cost of those available, with the prospect of still further advances in the near future. We, however, have been fortunate in securing sufficient supplies for making our Mixed Manures, and we shall keep them up to the same high standard that has given such good results and satisfaction in the past. To farmers requiring **Grass Manures** we strongly recommend the purchase of our **A.Y. Grass Manure** and **A.Y. Top-dressing Manure,** both of which are exceptionally good value, carefully prepared and well balanced.

TERMS.—Manures, unless specially offered, are sold less 3¾ per cent. (9d. in the £) cash with order, or 2½ per cent. (6d. in the £) for cash in month, free on board steamer or rail Auckland. As the values vary considerably, these quotations are **subject to market fluctuations. Prices below are as on February 25th, 1920.** With Manures as with Seeds it is absolutely necessary to obtain the best, and **such we only stock.** Cheap Manures and Seeds are dearer in the long run because they will not produce the same satisfactory results as high-class samples, and do not give the same yield per acre.

A.Y. Grass Manure

Specially prepared for sowing with grass seed, and strongly recommended in preference to Bonedust and Basic Super, which, singly, do not contain all the fertilizing properties of a perfect Manure. This mixture contains all the elements necessary for the growth of a rich mixed pasture, being quick in action and yet lasting well, supplying the grasses and clovers with the essential Nitrogen and Phosphoric Acid.

Price	per ton	£12 17 6
If payment made within one month of invoicing, the price is		12 11 1
Or if cash is sent with order then the price is, net ..		12 7 10

A.Y. Top-Dressing Manure

A mixture admirably adapted for renovating worn-out pastures. A dressing of this fertilizer has a wonderful effect, as it replaces those ingredients which have been absorbed and used by the grass, thus giving new life to the pasture. Strongly recommended as producing far better results than Bonedust, etc., alone; it has an immediate and lasting effect.

Price	per ton	£12 17 6
Cash in Month	,,	12 11 1
Cash with Order	,,	12 7 10

Yates' A.Y. Steamed Bonedust

We offer the **CALCUTTA BONEDUST,** this being of the highest quality and analysis. Our last shipment contains 4½ per cent. Nitrogen and 51 per cent. Phosphate of Lime. We can strongly recommend it for any crop, being exceptionally high in both Phosphate and Ammonia, in good condition, and thoroughly steamed.

Price	per ton	£19 12 6
Cash in Month	,,	19 2 8
Cash with Order	,,	18 17 9

A.Y. Sydney Bone Manure

We are sorry that no further shipments of Calcutta Bonedust will be available before late Spring, but we have secured supplies of **SYDNEY BONE MANURE** that is usually finer and therefore slightly more soluble than the Calcutta Bonedust.

Price	per ton	£19 5 0
Cash in Month	,,	18 15 5
Cash with Order	,,	18 10 7

Yates' A.Y. Bonedust and Blood

A most excellent and genuine Manure, being very rich in Ammonia; in fact, it is almost too rich to use by itself, but it is well adapted for mixing with Superphosphate, etc. It contains 20 per cent. Phosphate of Lime and 9 per cent. of Ammonia, and is guaranteed under the Fertilizers Act, 1904, to contain 8 per cent. P_2O_5 and 7 per cent. NH_3.

Price	per ton	£21 0 0
Cash in Month	,,	20 9 6
Cash with Order	,,	20 4 3

Yates' A.Y. Superphosphate

Unexcelled in quality, containing from 35 to 38 per cent. soluble Phosphate. Guaranteed under the Fertilizers Act, 1904, to contain 15 per cent. P_2O_5 soluble. It is fine and dry and in excellent condition for drilling, and we have every confidence in recommending it. Owing to the Phosphate of Lime being in a soluble form (having been dissolved in Sulphuric Acid) this manure is particularly useful for supplying Phosphoric for the use of quick-growing crops, and makes a perfect fertilizer when mixed with suitable forms and proportions of Ammonia, etc.

In short supply—

Price	per ton	
On Rails, at Works ..		£10 0 0
Free on Boat, Auckland, ex Works		10 8 0
When shipped Urgent, ex Store		10 15 0

All less usual discounts.

With Manures, as with Seeds, Quality, not Price, is the true Money-saver.

Manures and Fertilizers

Yates' A.Y. Manures for Special Crops

We have had a very long experience in mixing Manures for special crops, having had the advantage of practically testing various combinations of Manures upon the seed crops of our own Seed Farms, both in New Zealand and Australia. The mixtures, therefore, that we send out under the brand **A.Y.** are the result of this practical experience, and we unhesitatingly claim that no mixtures so good, certainly nothing better, are offered to the farming community at the present time.

Farmers can rely upon these mixtures being properly balanced as regards the essential requirements of each individual crop. They are mostly made up in bags 16 or 12 to the ton, each bag being stencilled with our name and address, and are offered delivered either free on rails or steamer Auckland, subject to sales and market fluctuations.

A.Y. Ephos Basic Phosphate

A Phosphatic Rock Guano that is of "proved" value for top-dressing pasture land. Contains 60% to 63% Phosphate of Lime, dissolves more readily than many forms of Guano, and especially encourages the growth of Clovers. We can supply *ex* store for immediate use, or we have a shipment arriving early in March that we offer at £10 per ton, less 5/- per ton prompt cash on delivery, placed free on rails or steamer Auckland, subject to sales and safe arrival.

Price .. .. per ton £10 0 0
Less 5/- per ton, prompt Cash on Delivery.

A.Y. Basic Slag

We are able to offer the first parcel of High-grade Slag available since 1915, having a limited quantity of 17%–18% grade to arrive about March or April. The price of this is £14 per ton, less 7/- per ton prompt cash on delivery, free on rails or steamer Auckland, subject to sales and safe arrival.

Price .. .. per ton £14 0 0
Less 7/- per ton, prompt Cash on Delivery.

A.Y. Basic-Super

It has been found that by mixing a certain proportion of Lime with Superphosphate the acidity of the Super is removed and a fertilizer is produced that provides for the equivalent of 40 per cent. available phosphate. At the same time the combination results in a manure that is much drier and more friable than Superphosphate and more easily drilled in consequence. As it takes several days to prepare this manure properly, we would urge customers to order early, so that there may be no delay in the execution of their order.

Price	per ton	£10 15 0
Cash in Month	,,	10 9 8
Cash with Order	,,	10 7 0

A.Y. Clover Manure

A special mixture for leguminous plants, such as Clover, Peas, Beans, etc., which require a large proportion of Phosphate to obtain the best results.

Price	per ton	£12 17 6
Cash in Month	,,	12 11 1
Cash with Order	,,	12 7 10

A.Y. Rape Manure

A special mixture, containing all the essential ingredients for this well-known and valuable crop. Our sales of this Manure have largely increased during the past year.

Price	per ton	£12 17 6
Cash in Month	,,	12 11 1
Cash with Order	,,	12 7 10

A.Y. Turnip Manure

A first-class fertilizer and the best to use for Turnip crops, giving strength and vigour, and besides giving a heavy yield it leaves the soil in splendid heart for the following crop.

Price	per ton	£12 17 6
Cash in Month	,,	12 11 1
Cash with Order	,,	12 7 10

A.Y. Oat Manure

The best Manure for this important crop, providing it with the necessary Phosphate, whilst containing sufficient Ammonia to promote a strong, vigorous growth.

Price	per ton	£12 17 6
Cash in Month	,,	12 11 1
Cash with Order	,,	12 7 10

Prices of Manures alter quickly, and are quoted subject to market fluctuations.

A.Y. SPECIAL MANURES A.Y.

Manures and Fertilizers

Yates' A.Y. Manures

A.Y. SPECIAL MANURES A.Y.

Sold under a Guaranteed Analysis as supplied to the Minister of Agriculture. "The Fertilizers Act, 1904." The Actual Analysis, however, being considerably higher in every case.

A.Y. Root Manure for Mangolds, Carrots, etc.	Made up with the object of providing the essential constituents that such crops require to produce roots which contain a high analysis of saccharine. This manure has given some splendid returns, and is recommended with every confidence.	Price	per ton	£13 17 6
		Cash in Month	,,	13 10 7
		Cash with Order	,,	13 7 1
A.Y. Potato Manure	It is a perfect Potato Manure, the actual analysis containing 28 per cent. of Phosphate of Lime (7 per cent. soluble), and 2 per cent. Ammonia.	Price	per ton	£13 17 6
		Cash in Month	,,	13 10 7
		Cash with Order	,,	13 7 1
A.Y. Onion Manure	A complete fertilizer for this particular purpose, and which is recommended as containing the essential elements in proper proportions necessary for the production of a heavy yield of good quality Onion Bulbs.	Price	per ton	£13 17 6
		Cash in Month	,,	13 10 7
		Cash with Order	,,	13 7 1
A.Y. Orchard Manure	Expressly made up with a view to the fruit-bearing capacity that is the aim of each successful orchardist, whilst at the same time containing sufficient Nitrogen to promote healthy growth that enables the trees to better resist disease.	Price	per ton	£13 17 6
		Cash in Month	,,	13 10 7
		Cash with Order	,,	13 7 1
A.Y. Maize Manure	A splendid fertilizer for all Forage crops, as Maize, Sorghum, Millet, etc. Produces strong, healthy foliage of that deep green colour so much desired in such crops. High in Phosphate and Ammonia.	Price	per ton	£13 17 6
		Cash in Month	,,	13 10 7
		Cash with Order	,,	13 7 1

A.Y. Lawn Manure

One of the principal causes of the failure of so many lawns is the lack of suitable nourishment to sustain the grass, which consequently slowly dies out and allows weeds to take possession. We would strongly recommend those who would wish to have good lawns to apply some suitable manure as a top-dressing in spring and autumn, which will have the effect of encouraging the growth of the grass by supplying it with its own special food elements and helping it to hold its own against weeds. To meet this want we are putting up a **Special Lawn Manure**, which we recommend to be applied from 2oz. to 4oz. to the square yard, or 56lb. to 112lb. to an ordinary double court tennis lawn. **Price—7lb., 2/-; 14lb., 3/6; 28lb., 6/-; 56lb., 11/-; 1cwt., 20/-**, including cost of bags.

We also put up Special Mixtures for the Vegetable and Flower Gardens, Sweet Peas, etc., full particulars of which will be found in our Seed Annual, published later in the year.

Ammonia and Nitrogenous Manures

AMMONIA AND NITROGENOUS MANURES are still in very short supply. We hope later to be able to offer both Nitrate of Soda and Sulphate of Ammonia, and at present in place recommend the use of Bonedust and Blood as priced on page 14. This shortage should suggest to farmers the advisability of getting their Nitrogen from the air by means of growing more Legumes, such as Clovers, Peas, Lupins, etc. For instance, when sowing down a grass pasture, include an extra amount of Red Clover, or when cropping grow Lupins and plough in preparatory to growing other crops. **We can supply a book on "Green Manures,"** written by a leading American authority, **price 4/9, post paid,** which makes very interesting reading on this subject.

Agricultural Lime

We can usually supply this, but owing to the greatly increased sale of the last 18 months the works have been unable to keep pace with the demand and orders have been delayed for several months until they could be executed in rotation. It is therefore necessary to book at least 3 to 4 months ahead, and when doing so, to state exactly which of the following is required:

GROUND CARBONATE OF LIME.—Not burnt and consequently slow in action.

SHELL LIME, BURNT.—Usually obtainable at short notice.

GROUND BURNT LIME.—Much quicker in action, only requiring one-third the quantity per acre of Ground Carbonate, although higher in price.

WHITE ROCHE or ROCK LIME.—Unslaked.

PRICES FURNISHED UPON APPLICATION.

A.Y. Brand of Manures stands for "Highest Analysis and Best Results."

Yates' Re-machined Grain Seed

For Forage Crops.

When sowing Grain Seed the farmer needs to exercise the same care as when sowing Grass Seed, to see that he obtains reliable seed that will give the best results. That the seed we send out may come up to our standard of Yates' Reliable Seeds, **we always re-clean through our own extensive machinery** the "machined" samples that reach us from various sources of supply. We thus ensure sending out seed that will give satisfactory results both as regards germination and purity, and our lines of Grain Seed consequently are the best obtainable.

For Sowing during the Autumn, Winter and Spring

This will provide feed for late Winter, Spring and Early Summer:—

BLACK SKINLESS BARLEY.—The most robust growing barley for green feed purposes, and much preferred to Cape Barley by those who have grown both. One of the best winter and spring forage plants that only wants to be better known to be grown extensively.

BARLEY, CAPE, RE-CLEANED.—Makes splendid feed, either sown alone or with Vetches (Tares).

RYECORN, RE-CLEANED.—Also first-class feed for sowing alone or with Vetches (Tares).

VETCHES or TARES.—Unsurpassed in value, but requires Barley, Ryecorn, or Oats to be sown with it to hold it up.

HORSE or TICK BEANS.—Chiefly grown for the beans which are ground and fed to stock.

OATS.—See special list below.

PEAS, FIELD.—Imperial Blues, Blue Prussian, Grey or Partridge, all of good feeding value, whilst, like Vetches and Horse Beans, they add nitrogen to the soil.

ITALIAN RYE GRASS AND CRIMSON CLOVER.—See pages 6 and 7.

WESTERN WOLTHS GRASS.—See page 6.

LUCERNE, HUNTER RIVER.—For permanent forage crop on good, clean land. See page 9.

TURNIPS, SOFT.—See below.

PRAIRIE.—One of the best quick-growing forage crops, if not eaten too closely.

Yates' Re-machined Oats—The Two Best Rust-resisting Oats.

YATES' RE-MACHINED ALGERIAN.—Too well known to need description. We can supply splendid samples of **Southern-Grown** Seed, re-machined by ourselves.

GREEN'S RUAKURA RUSTLESS. — Matures about a fortnight earlier than the Algerian, is equally Rust-resisting and a heavy cropper. This Oat is making headway in the good opinion of farmers.

Why we recommend these Varieties of Oats

1. **They are the best Rust-Resisting varieties obtainable.**
2. **They are Re-mach'ned by ourselves with special machines.**
3. **They are as free as possible from impurities, light seed, husk, dust, etc.**
4. **Their germination is therefore stronger than machine-dressed Oats that have only been once through the cleaning machines.**
5. **They are always of tested growth.**

When comparing our prices with others, please note that ours are **re-cleaned by our own machinery and of tested growth;** and, when receiving the seed, notice that the bags are stencilled "YATES' Re-cleaned."

To those specially wanting other Oats, we shall be pleased to quote as available the following:— **White Tartarian, Black Tartarian, Tartar King, Duns, Gartons, Sparrowbills, Storm King, Canadians.**

Feed Oats

We can supply both the ordinary dressed and also re-machined Feed Oats. It is beyond doubt but that many weeds are introduced into the paddocks through horses being fed upon Oats dirty with weeds, especially Canadian Thistle. It is therefore a mistake to buy low-priced lines which will probably lead to such a disastrous result.

Field Turnips

WHITE-FLESHED VARIETIES—
Devonshire Grey Stone (Purple Top)
Imperial Green Globe (Green Top)
Purple Top Mammoth

White-fleshed Turnips are most suitable for late sowing, or where quick results are required, as they all mature early, although the quality of feed is not quite so good as the slower-growing Aberdeens, etc. Sown with grass seed (½lb. to acre) they provide an early bite, whilst stock feeding upon them at same time consolidates the grass land.

PRICES.—Owing to frequent market fluctuations we do not give Prices of Grain and Forage Seeds in this Catalogue, but will furnish them immediately upon application.

YELLOW-FLESHED VARIETIES—
Purple Top Aberdeen or Scotch
Green Top Aberdeen or Scotch

Provide the longest keeping and best quality apart from Swedes, but require to be sown fairly early in the season, as they are not such quick growers as the white-fleshed sorts.

Swedes, Etc.

These are quoted in our Spring List sent out about September. Post Free on application.

Field Cabbage, Kale, Etc.

We shall be pleased to quote for these as required.

Our constant endeavour is to supply "Reliable" Seeds of all descriptions.

YATES' "RELIABLE" CALF FOOD.

In bags of 25lbs., 50lbs., 100lbs., and sacks of 200lbs. Prices on application.

Customers will find our Calf Meal to be the safest and best substitute for the Natural Milk, containing as it does nutritive food for building up healthy, well developed calves that result in sturdy stock, and this at a minimum of expense. The following "unsolicited" commendations speak for themselves of the quality of our YATES' "RELIABLE" MEALS:—

No. 7 Road, Waitoa, 26/9/19.
I had a 50 lb. bag of Calf Food to try, and my calves seem to be doing very well on it, so shall continue with it. Jas. H. Attwood.

Pukekawa, via Tuakau, 10/7/19.
I am pleased with the quality of your Pig Meal. H. S. Paton.

Other Feeding Meals, etc., for Pigs and Poultry.

We are usually in a position to offer various Meals and Whole Grain for these purposes, but prices fluctuate so quickly that we cannot offer in this catalogue, but are always glad to forward prices upon application.

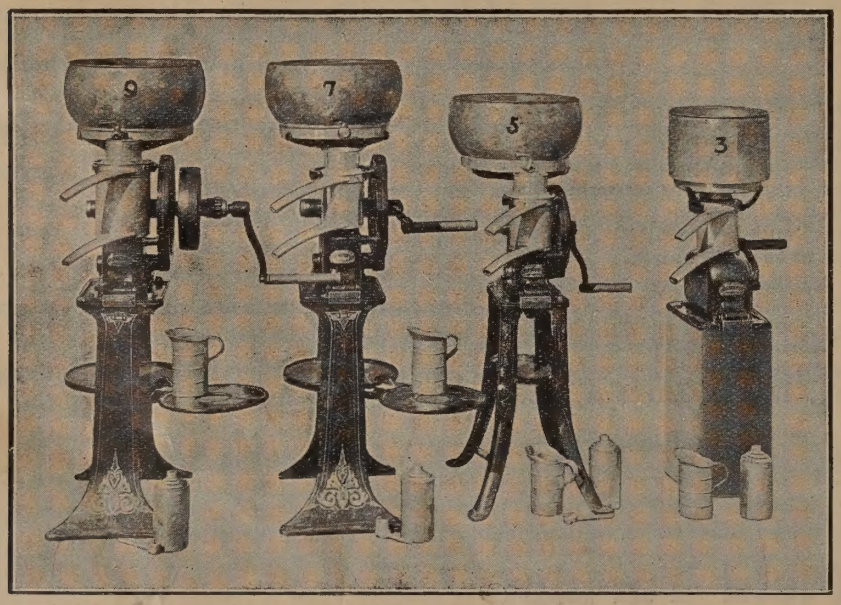
YATES' POULTRY MEAL.—A highly Nitrogenous Food to encourage laying.

A.Y. CHICKEN FOOD.—Small Grain mixed in proper proportions for Chickens.

GRAIN MEAL.—Specially prepared for fattening Pigs and Poultry, forming a well-balanced food. Prices given per sack and per ton.

WHOLE WHEAT MEAL.—Of better value than Pollard for fattening Pigs, etc.

A.Y. FOWL GRIT.—Greatly aids in the formation of eggs.



Anker-Holth Cream Separator

No. 3 size,	32	gallon capacity,	**£10**	**10** **0**
No. 5 „	49	„ „	**£14**	**10** **0**
No. 7 „	66	„ „	**£21**	**0** **0**
No. 9 „	90	„ „	**£24**	**0** **0**

Less 3¾ per cent. cash with order, or 2½ per cent. cash in month, or terms as by arrangement.

For full particulars write and ask us for our Illustrated Anker-Holth booklet.

Tree Seeds for Hedge and Shelter

Complete list of these will be found in our Seed Annual. The best time to sow all Tree Seeds is during the late Spring.

Albizzia Lopantha

The quickest growing hedge or shelter tree for our North Auckland districts, especially for orchard protection. Will produce effective shelter inside eighteen months, in fact seed sown in November has given plants 6 feet high by the following August. Seed, per lb., **1/6,** postage extra. Special price for large quantities.

Fruit, Shelter and Ornamental Trees

The new Catalogue, issued about May, will be sent post free on application, and we shall be pleased to receive orders for Fruit or Shelter Trees, Flowering Shrubs, etc., which will be supplied of the best quality at the Lowest Reasonable Rates.

Vegetable and Bedding-out Plants

In season we can supply Cabbage, Cauliflower, Tomato and Celery Plants, Rhubarb Roots, Potato Onions, Shallots, Garlic, Tree Onions, etc.; also Seedling Flower Plants, a full list of which is obtainable with our Seed Annual.

Our Nursery Catalogue is ready in May—write and we will post one to you.

PRICE LIST AND ORDER FORM *26th February, 1920.*

To ARTHUR YATES & CO., LTD.,

Seed Merchants, Auckland P.O. Box 1109.

PLEASE SUPPLY TO

Name .....
(in full)

Address .....
(in full)

.....

Goods to be forwarded per .....

	£	s.	d.
Goods as per Order Sheet	:	:	
Bags	:	:	
Total	:	:	
Less Cash Discount	:	:	
Amount Remitted £	:	:	

CONDITIONS OF SALE.—We believe that all Seeds, Bulbs, Tubers and Roots sold by us are of the description and kind specified by us at the time of the sale, but owing to the practical impossibility in many cases of being certain of this, we give no undertaking that such Seeds, Bulbs, Tubers or Roots will correspond with the description under which they are sold, and we make all sales subject to this condition. We further give no warranty, expressed or implied, as to their growth, description, quality or productiveness and will not be in any way responsible for the crop. If the purchaser does not accept the goods sold to him on these terms, they are at once to be returned to us.

TERMS: **F.O.B. or F.O.R, delivery Auckland, but on Grass and Clovers cost of direct railage or freight to nearest direct Port borne by ARTHUR YATES & CO., LTD. Discount, less 3¾% cash with order, or, 2½% cash in a month. Due Nett in Three Months. Subject to sales and market fluctuations.**

QUANTITY REQUIRED.	VARIETY.	PRICE PER BUSHEL	£	s.	d.
	COCKSFOOT—YATES' EXTRA MACHINED	1/11 lb.			
	„ Rough Dressed	1/6 lb.			
	RYE GRASS (PERENNIAL)—				
	YATES' MACHINE DRESSED, Poverty Bay / Do. Do. ... ... Hawke's Bay	15/-			
	YATES' EXTRA HEAVY RE-MACHINED	11/6			
	YATES' Extra Machined Canterbury ...	11/-			
	Finest Southern	10/6			
	RYE GRASS, ITALIAN—				
	YATES' GIANT RE-MACHINED ...	10/6			
	YATES' Re-Machined	10/-			
	RYE GRASS, WESTERN WOLTHS ...	10/6			
	PRAIRIE GRASS, Re-Machined	12/6			
	CLOVERS—	PER LB.			
	Cowgrass, YATES' COLONIAL... ...	2/11			
	„ YATES' Finest IMPORTED ...	2/9			
	Red, YATES' COLONIAL	2/11			
	„ YATES' Finest IMPORTED ...	2/9			
	White, YATES' Finest	2/9			
	Alsyke, YATES' Finest, Re-Machined...	2/9			
	Trefoil, Yellow	1/9			
	Lotus Corniculatus (Birdsfoot Trefoil)	4/6			
	Lotus Major (Greater Birdsfoot Trefoil) Finest	6/6			
	„ „ Local, containing some Angustissimus	4/6			
	Lotus Hispidus	2/-			
	Lotus Angustissimus	1/9			
	Crimson (Trifolium Incarnatum) ...	1/6			
	Lucerne, YATES' HUNTER RIVER (true)	2/6			
	„ Colonial saved	2/3			
	Strawberry	8/-			
	Subterraneum (Trifolium)	8/-			
	Melilotus Officinalis...	9d			
	Melilotus Officinalis Alba	1/9			
	Kidney Vetch	2/6			
	Rape—Essex Sowing	1/-			
	Mustard—Agricultural	1/9			
	Rib Grass	6d			
	Meadow Foxtail	4/9			
	Timothy	1/5			
	Crested Dogstail	1/11			
	Paspalum Dilatatum, Heavy Hand Shaken Australian	3/-			
	„ „ Local	1/9			

QUANTITY REQUIRED.	VARIETY.	PRICE PER LB.	£	s.	d.
	Danthonia, Re-Dressed Pilosa	5/-			
	„ „ Semi-Annularis ...	4/6			
	Fescue, Chewing's Re-Machined	1/6			
	„ Meadow	3/-			
	„ Tall	7d			
	„ Hard	1/6			
	„ Red	1/6			
	„ Sheep's	1/6			
	Poa Pratensis	2/6			
	„ Trivialis	5/-			
	Brown Top (Agrostis Canina)				
	Red Top (Agrostis Vulgaris)	2/-			
	Fiorin (Agrostis Stolonifera)	2/-			
	Rat's-tail	1/6			
	Indian Doobj	3/-			
	Yellow Oat Grass (Avena Flavescens) ...	5/-			
	Tall Oat Grass (Avena Elatior)	3/-			
	Yarrow	7/-			
	Sainfoin	1/9			
	Sheep's Parsley...	2/-			
	Sheep's Burnet	2/6			
	Chicory	4/-			
	Yorkshire Fog	6d			
	Turnip—Aberdeen ... ... / „ White Fleshed	3/-			
	Kale, Thousand Headed	4/6			
	Swede—Sorts	3/-			
	MANURES.	PER TON			
	A.Y. Top Dressing	12 17 6			
	A.Y. Grass Manure	12 17 6			
	A.Y. Oat Manure ... ... / A.Y. Grain Manure	12 17 6			
	A.Y. Turnip Manure	12 17 6			
	A.Y. Root Manure	13 17 6			
	Bonedust and Blood, high grade	21 0 0			
	Bone Manure—Sydney Steamed ...	19 5 0			
	Bonedust—Calcutta Steamed	19 12 6			
	Superphosphate, A.Y.—On rails ex works...	10 0 0			
	When shipped urgent ex store ...	10 15 0			
	Basic Super.	10 15 0			
	Ephos Basic Phosphate	10 0 0			
	FOR OTHER SEEDS AND MANURES SEE CATALOGUE.				

INSTRUCTIONS .....

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NOTE.—For large quantities of seed special quotations will be furnished by return post upon application.

206165—Abel, Dykes Ltd., Print.

Yates' Vegetable Seeds for Autumn Sowing

6d. and 3d. per Packet Post Paid.

For Full Descriptive List write for our SEED ANNUAL, post free on application.

Borecole—Dwarf Curled.
Broccoli—Veitch's Self-protecting, Penzance, Walcheren, Adams' Early, Elletson's Mammoth, Late Metropole, etc.
Brussels Sprouts.
Cabbage—Enfield Market, St. John's Day, Early Drumhead, Gibson's Late Drumhead, Savoy Drumhead.
Carrot—Manchester Table, Oxheart, Early Horn.
Cauliflower—Veitch's Autumn Giant, Walcheren, Late Metropole.
Lettuce—Cabbage and Cos Varieties.
Onions—Selected Brown Spanish, Extra Early Globe, Light-skinned Spanish, etc.
Parsley—Extra Curled.
Parsnip—Hollow Crown.
Radish—Long Scarlet, Mixed Turnip, French Breakfast.
Spinach—Prickly.
Turnip—Snowball (White Stone), Nepaul, etc.
Swede—Garden.

YATES' Collections of "Reliable" Vegetable Seeds

FOR ONE YEAR'S SUPPLY.

These are specially suitable for persons who live in the more out-of-the-way districts, where the means of communication are not good. When ordered for the South Sea Islands, they will be supplied in air-tight tin cases with movable lids, so that, while the seeds may be taken out for use when required, they will still be kept as free as possible from the action of the air, and their germinating powers will be preserved. These Collections are never kept in stock by our agents, but can always be procured through them at a few days' notice, or we will supply them direct, post free, on receipt of remittance. Lists are here given of the seeds usually supplied in these Collections; these assortments are suitable for most districts, but will be slightly altered to suit the cold and also tropical climates.

For 20/-

We can supply the following Collection, post free to any address. It contains enough garden seeds to plant a moderate-sized garden.

	Packets.		Packets.
Beans, French or Kidney	3	Onions, sorts	3
Beans, Broad Windsor	1	Parsley, Triple Curled	1
Beet, Blood Red	1	Peas, Early and Late	3
Cabbage, Early and Late	2	Pumpkin, sorts	2
Carrots, sorts	2	Parsnips, Hollow Crown	1
Cauliflower, Early & Late	2	Radish, Long and Turnip	2
Celery, White	1	Spinach	1
Corn or Table Maize	1	Squash	1
Cress, Curled	1	Turnips, sorts	2
Cucumber	1	Tomato, Red and Yellow	2
Lettuce, sorts	2	Vegetable Marrow, Long Cream	1
Leek	1	Herbs, assorted (small)	3
Melons, Water and Rock	2	Flower Seeds	12
Mustard	1		

For 10/-

We can supply a Collection containing smaller packets (excepting Peas and Beans) which will be found sufficient for a small cottage garden.

	Packets.		Packets.
Beans, French	1	Peas	2
Beans, Broad	1	Pumpkin	1
Beet, Round and Long	2	Parsnip	1
Cabbage, Early and Late	2	Radish	1
Carrot	2	Rock Melon	1
Cauliflower	1	Turnip, Swede	1
Cucumber	1	Turnip, White	1
Herbs	3	Tomato	1
Lettuce	2	Vegetable Marrow	1
Onion	2	Water Melon	1
Parsley	1	Flower Seeds	12

We shall be pleased to send the following Publications on application.

Yates' Gardening Guide—Our Revised and Enlarged Edition. The most complete manual on Australasian Gardening yet published. *Sent post free on receipt of 1/- in stamps.*

Yates' Hints on Lucerne Cultivation.

Yates' Pamphlet on Tree Seeds for Shelter and Timber purposes.

Yates' Bulbs and Sweet Pea Catalogue. Published in February.

Yates' Nursery List of Fruit and Ornamental Trees, etc. Published in May.

Yates' Seed Annual of all Vegetable and Flower Seeds, Implements and Spray Pumps, Spraying Materials, etc. Published May-June.

Remember! We allow 3¾% Cash with Order off Seeds, Manures & Implements

Farm and Garden Tools

Including . . .

SPADES, LAWN MOWERS, RAKES, SPRAY PUMPS, FORKS, HOSE, Etc.

Garden Sundries of all descriptions.

KARAKA PLOUGHS—For Pony, Light, & Medium Horse.

Iron Age Implements.

"ROBBIN'S" POTATO PLANTER.
POTATO DIGGERS IN THREE STYLES.
NEW MODEL HORSE HOE & CULTIVATOR.
HARROW & CULTIVATOR.
No. 6 CULTIVATOR HILL & DRILL SEEDER.
No. 4 CULTIVATOR & SEED DRILL.

Kaukapakapa, 3/11/19.
I am very pleased with the Iron Age Seed Drill we bought from you, as it has done very satisfactory work already, and is a great labour saver. *G. H. Ketterer.*

Without a doubt the best machines on the market! Every customer who has purchased these is more than satisfied with them. The Potato Planter can also be used for sowing Mangold and similar seeds by obtaining the necessary attachment. Full particulars are given in our Garden Catalogue of these and other time and therefore money-saving implements.

Spraying Materials

We stock the best, **and the best only,** of these preparations, which it is absolutely necessary to use if successful results are to be obtained from Garden, Farm and Orchard. We are only too pleased to advise customers as regards what solutions to use, and the proper time to apply them, as ultimate **results depend upon spraying with the right preparation at the right time.**

Arsenate of Lead (Green Cross) Powder
Arsenate of Lead (Swift's) Paste
Black Leaf 40
Blue Stone (Pure Selected Sulphate of Copper)
Formalin (for steeping grain seed)
Fir Tree Oil
Gargoyle or Red Oil
Gishurst's Compound
Lime and Sulphur Mixture
Lime, Unslaked
McDougall's Insecticide Tree Wash
Nicotine Soap
Niquas
Paris Green
Quassia Chips
Red Oil (Gargoyle)
Sulphur, Flowers of
Tobacco Stems
Tobacco Dust

NOTE: For full description of the above, together with descriptive list of Implements and Pumps, see our 1920 Garden Catalogue, to be issued in June, post free upon application to

Arthur Yates & Co., Ltd.

LOWER ALBERT STREET, AUCKLAND

Abel, Dykes Ltd., Printers, Auckland.